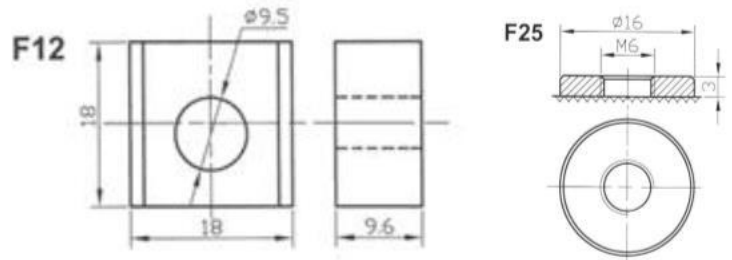


AGM DEEP CYCLE BATTERY



Model: BT-75-12 (12V75AH)



Application

- ☆ Solar system
- ☆ Wind system

General Features

- ☆ Thick plates and high-density active material
- ☆ High power density
- ☆ Longer life in deep cycle applications
- ☆ Excellent recovery from deep discharge

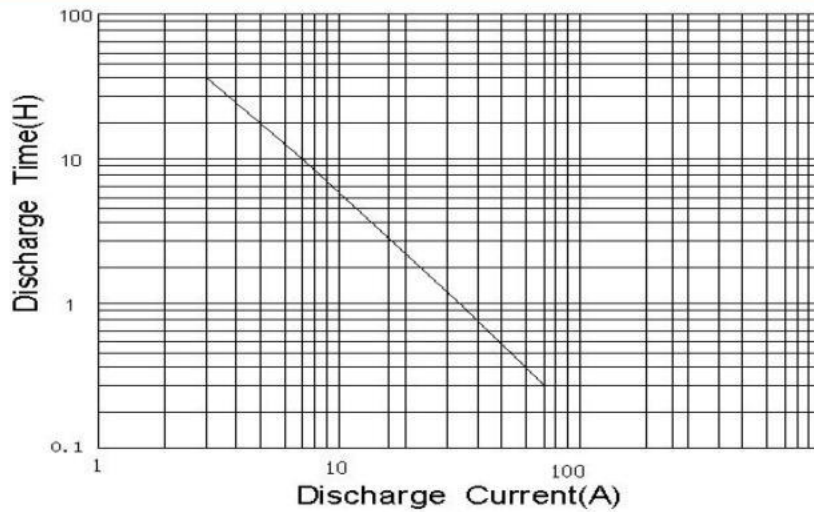
PHYSICAL SPECIFICATIONS		
Nominal Voltage		
	12V	
Nominal Capacity (10HR)		
	75AH	
Dimensions	Length	260±2mm
	Width	168±2mm
	Container height	212±2mm
	Total Height (with terminal)	224±2mm
Weight±3%		
	Approx 23.2Kg(51.1lbs)	
Internal Resistance(In full charge status)		
	≈4.8mΩ	
Standard Terminals		
	F12/F25(standard)	

ELECTRICAL SPECIFICATIONS		
Rated Capacity	10 hour rate(7.5A)	75.5AH
	20 hour rate(3.75A)	78.0AH
	120 hour rate(0.63A)	82.5AH
	240 hour rate(0.31A)	84.0AH
Capacity affected by Temperature (10Hour Rate)	40°C(104°F)	103%
	25°C(77°F)	100%
	0°C(32°F)	86%

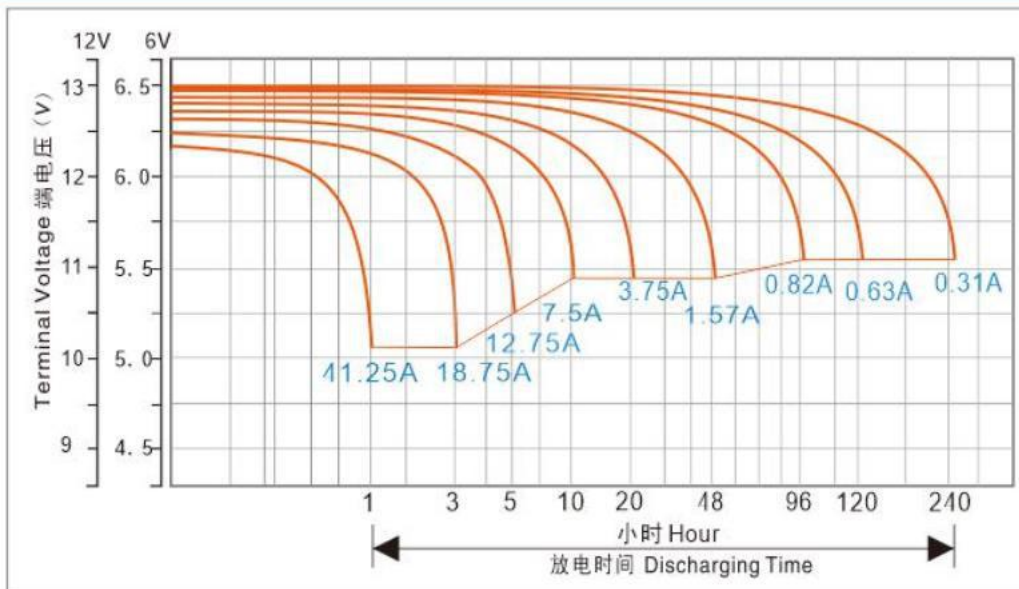
Constant – Voltage Charge

Cycle application	<ol style="list-style-type: none"> 1. Limit initial current less than 18.75A. 2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C (77°F). 3. Hold at 14.1V to 14.4V until current drop to under 0.45A for at least 3 hours. 4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby service	<ol style="list-style-type: none"> 1. Hold battery across constant voltage source of 13.6to 13.8 volts with current limit 18.75A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status. 2. Temperature compensation coefficient of charging voltage is -18mV/°C
<p>NOTE : The battery should be charged within 6 months of storage ,Otherwise , permanent loss of capacity might occur as a result of sulfation</p>	

Discharge Current & Discharge Duration Time (25°C/77°F)



Discharge Characteristic (25°C/77°F)



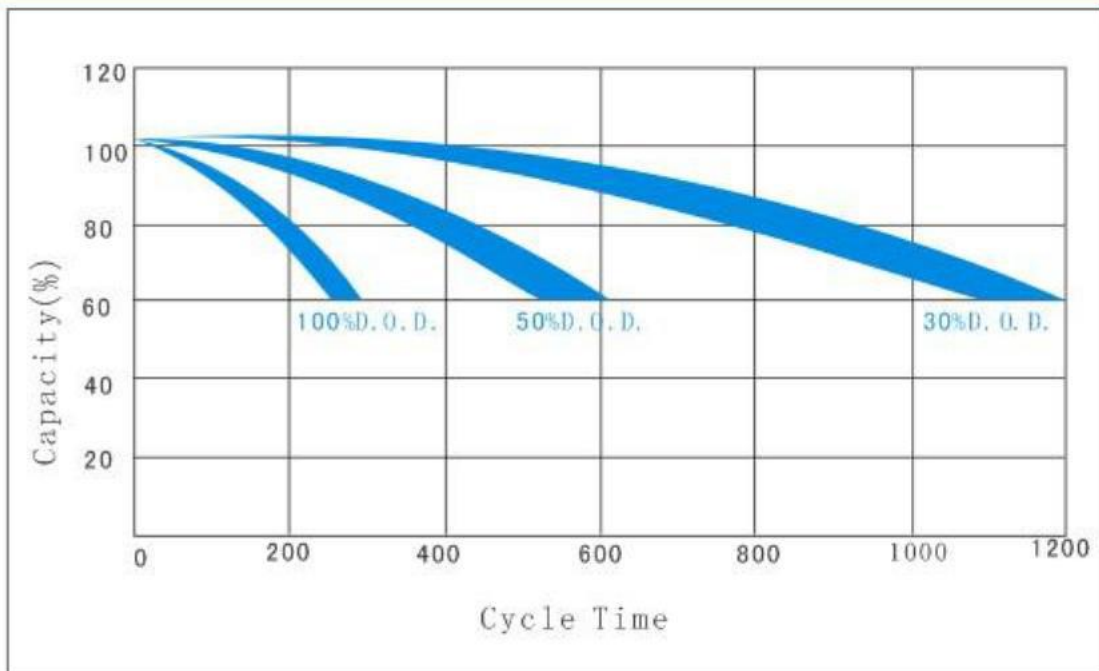
Constant Current Discharge Data Sheet (Amperes at 25°C)

End Voltage	Hour (H)									
	1	2	4	8	10	20	48	96	120	240
10.20	43.94	27.19	16.70	9.242	7.651	3.939	1.799	0.943	0.784	0.401
10.50	41.66	25.61	15.94	9.166	7.613	3.901	1.791	0.936	0.776	0.398
10.80	39.77	24.07	15.15	9.090	7.575	3.863	1.769	0.928	0.769	0.394
11.10	36.85	22.54	14.36	8.863	7.461	3.825	1.742	0.924	0.758	0.390
11.40	34.35	20.96	13.54	8.598	7.348	3.750	1.716	0.920	0.746	0.386

Constant Power Discharge Data Sheet (Watt at 25°C)

End Voltage	Hour (H)									
	1	2	4	8	10	20	48	96	120	240
10.20	456.7	282.7	173.6	96.05	79.52	40.94	18.70	9.802	8.149	4.173
10.50	433.0	266.2	165.7	95.27	79.13	40.55	18.62	9.724	8.070	4.133
10.80	413.3	250.2	157.5	94.48	78.73	40.15	18.38	9.645	7.991	4.094
11.10	383.0	234.2	149.3	92.12	77.55	39.76	18.11	9.605	7.873	4.055
11.40	357.1	217.9	140.7	89.36	76.37	38.97	17.83	9.566	7.755	4.015

The Relationship Between Lifetime and Depth Of Discharge(25°C/77°F)



Capacity Curve at Different Temperature

